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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,403	03/18/2004	David D. Crouch	PD-02W127	5544
7590 04/28/2005		EXAMINER		
THOMAS J. FINN, ESQ.			BEN, LOHA	
RAYTHEON COMPANY EO/E4/N119, P.O.BOX 902			ART UNIT	PAPER NUMBER
2000 E. EL SEGUNDO BLVD.			2873	
EL SEGUNDO	), CA 90245-0902		DATE MAILED: 04/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/803,403	CROUCH, DAVID D.	
Office Action Summary	Examiner	Art Unit	
	LOHA BEN	2873	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, may a reply be tir ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nety filed  /s will be considered timety.  I the mailing date of this communication.  ED (35 U.S.C. § 133).	
·	March 2004		
<ul> <li>1) Responsive to communication(s) filed on 18 №</li> <li>2a) This action is FINAL.</li> <li>2b) This</li> </ul>	<u>narch 2004</u> . s action is non-final.		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This 3) ☐ Since this application is in condition for allowa		osecution as to the merits is	÷.
closed in accordance with the practice under			
Disposition of Claims			
4) ☐ Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 12-19 is/are allowed. 6) ☐ Claim(s) 1-11 and 20-29 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 18 March 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	win from consideration.  or election requirement.  er.  a)⊠ accepted or b)□ objected to drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).	
11) The oath or declaration is objected to by the E	•		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv nu (PCT Rule 17.2(a)).	tion No ed in this National Stage	
Attachment(s)	_		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>0304</u>.</li> </ol>	4) Interview Summary Paper No(s)/Mail D  5) Notice of Informal I  6) Other:		

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 and 20-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1: lines 2 and 5, respectively, it is not seen whether the respective beam passed by the first means are the same; and line 6, it is not seen where the reflection occurs, and by what.

Claims 2-11, depending from claim 1, inherit the indefiniteness thereof.

Claims 20 and 21: line 1, "The system" has no antecedent basis.

In claim 22: line 3, it is not seen by what element the passing of the beam occurs; line 6, similarly, it is not seen by what element the selective altering is conducted, and by what component the reflection of a beam occurs; and lines 7 and 8, "said first means" has no antecedent basis.

In claims 24, 26 and 28: same issues as in claim 1 are again noted.

Claims 23, 25, 27 and 29, depending from claims 22, 24, 26 and 28, respectively, inherit the indefiniteness thereof.

## **Allowable Subject Matter**

Claims 12-19 are allowed.

Claims 1, 22, 24, 26 and 28 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 2-11, 20, 21, 23, 25, 27 and 29 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The allowability of claims 1-27 centers on the perforation characteristic of the elements used, and that of claims 28 and 29 is noted with the metallic nature of the beamsplitter and the quarter-wave plate that exhibit the characteristics claimed therein.

#### Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Loha Ben whose telephone number is (571) 272-2323. The examiner can normally be reached on Monday to Saturday, generally between 12:00 noon and 8:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps, can be reached on Monday to Friday, at (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 27, 2005

**Loha Ben Primary Examiner** 

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